

Claims

What is claimed is:

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1. An emergency command and control system, comprising:

10 a plurality of positioning subsystems, each of the plurality of positioning subsystems having a receiver and a transmitter, the plurality of positioning subsystems transmitting a positioning signal;

15 a wearable tag capable of receiving the positioning signal from several of the plurality of positioning systems, the wearable tag transmitting a tag position; and

15 a console containing a computer and a receiver capable of receiving the tag position.

2. The system of claim 1, wherein each of the plurality of positioning subsystems has a time modulated receiver.

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3. The system of claim 1, wherein the transmitter in each of the plurality of positioning subsystems uses a time modulated transmission system.

4. The system of claim 1, wherein the wearable tag transmits an alert when the wearable tag has been stationary for a predetermined period of time.

5 5. The system of claim 1, wherein the alert is an audible alert.

6. The system of claim 1, wherein the wearable tag monitors a user's vital signs.

10 7. The system of claim 1, wherein the console includes a time modulated receiver.

15 8. The system of claim 1, wherein the console displays a location of the wearable tag.

9. The system of claim 8, wherein an icon representing the wearable tag flashes when the console receives an alert from the wearable tag.

10. A method of operating an emergency command and control system, comprising the steps of:

- 5 a) determining a position of a plurality of positioning subsystems;
- b) transmitting a position signal from each of the plurality of positioning subsystems;
- c) receiving the position signal from several of the plurality of positioning subsystems at a wearable tag; and
- 10 d) calculating a tag position.

11. The method of claim 10, further including the step of:

- 15 e) displaying the tag position on a monitor of the console.

12. The method of claim 11, further including the step of:

- 20 f) when the tag position has remained stationary for a predetermined period of time, transmitting an alert to the console.

13. The method of claim 12, further including the step of:

- g) emitting an audible alarm.

14. The method of claim 10, wherein step (b) further includes the step of:

5 b1) transmitting the position signal using a time modulated ultra wide band multiple access transmission system.

10 15. An emergency command and control system, comprising:

10 a wearable subsystem transmitting and receiving a positioning signal; and

15 a console, having a directional antenna, transmitting and receiving the positioning signal and calculating a wearable subsystem position, the console displaying the wearable subsystem position on a display.

16. The system of claim 15, wherein the console has an impulse radio transmitter.

20 17. The system of claim 15, wherein the wearable subsystem has an impulse radio transmitter.

25 18. The system of claim 15, wherein the wearable subsystem transmits an alarm when the wearable subsystem has not moved for a predetermined period of time.

19. The system of claim 15, wherein the wearable subsystem has a directional antenna.

20. The system of claim 15, further including a GPS receiver
5 connected to the console.